## Webinar Agenda Advanced Sensors and Instrumentation 2015 NE I&C Review

(All Times are Eastern Daylight Time)

## Wednesday, October 28, 2015

10:00 am	Welcome and Webinar Rules (Bruce Hallbert, INL)
10:15 am	NE I&C and NEET-ASI Overview (Suibel Schuppner, DOE/Bruce Hallbert, INL)
10:30 am	LWRS Advanced II&C R&D Overview (Bruce Hallbert, INL)
11:00 am	ART ICHMI R&D Overview (Richard Wood, ORNL)
11:30 am	Materials Recovery and Waste Forms Overview (Sam Bryan, PNNL)
12:00 pm	Lunch Break
12:30 pm	Materials Protection and Accountability (MPACT) Campaign Overview and Advanced Instrumentation Development Overview (Dan Vega, DOE)
1:00 pm	Advanced Fuels Program In-reactor Instrumentation Overview (Heather Chichester, INL)
1:30 pm	Used Nuclear Fuel Storage and Transportation Overview (Steve Marschman, INL)
2:00 pm	Summary/Discussion (All)
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	Sensors:
2:30 pm	Enhanced Micro-Pocket Fission Detector (MPFD) for High Temperature Reactors (Troy Unruh, INL)
3:00 pm	High Spatial Resolution Distributed Fiber-Optic Sensor Networks for Reactors and Fuel Cycle Systems (Kevin P. Chen, University of Pittsburgh)
3:30 pm	Robust Online Monitoring Technology for Recalibration Assessment of Transmitters and Instrumentation (Pradeep Ramuhalli, PNNL)
4:00 pm	Under Sodium Viewing (Hual-Te Chien, ANL)
4:30 pm	Under Sodium Viewing (Mike Larche, PNNL)
5:00 pm	Feedback/Discussion (Bruce Hallbert, INL)
5:30pm	Adjourn
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10:00 am	Welcome and Webinar Rules (Bruce Hallbert, INL)
	Digital Monitoring and Control:
10:15 am	Embedded I&C for Extreme Environments (Roger Kisner, ORNL)
10:45 am	Radiation Hardened Electronics Destined for Severe Nuclear Reactor Environments (Keith E. Holbert, Arizona State University)
11:15 am	Radiation Hardened Circuitry Using Mask-Programmable Analog Arrays (Chuck Britton, ORNL)
11:45 am	Operator Support Technologies for Fault Tolerance and Resilience (Rick Vilim, ANL)
12:15 pm	Lunch Break
12:45 pm	A Method for Quantifying the Dependability Attributes of Software-Based Safety Critical Instrumentation and Control Systems in Nuclear Power Plant (Carol Smidts, The Ohio State University)
1:15 pm	Online Monitoring of Material Aging and Degradation (Vivek Agarwal, INL)
1:45 pm	Enhanced Risk Monitor w/ Equipment Condition Assessment (Pradeep Ramuhalli, PNNL)
	Nuclear Plant Communication:
2:15 pm	Nanostructured Bulk Thermoelectric Generator for Efficient Power Harvesting for Self- powered Sensor Networks (Yanliang Zhang, Boise State University)
	Advanced Concepts of Operation:
2:45 pm	Computer-based procedures (Johanna Oxstrand, INL)
3:15 pm	Control Room Modernization (Ron Boring, INL)
3:45 pm	Concepts of Operation/Human-Automation Collaboration (Katya Le Blanc, INL)
4:15 pm	Advanced Outage Control Center (Shawn St. Germain, INL)
4:45 pm	Feedback/Discussion (Bruce Hallbert, INL)
5:15 pm	Concluding Remarks (Suibel Schuppner, DOE)
5:30 pm	Adjourn